

IN THE CLAIMS

Please amend Claims 1-20 as follows:

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1. (Amended) A disk for a hard disk drive, comprising:
a disk having at least one side with a plurality of tracks, each track including at least one group of sectors, each sector within said group includes a burst in a servo field which corresponds to a portion of track position information, said plurality of portions of track position information in the corresponding plurality of sectors within said group are combined to provide a track position of a corresponding track [of said tracks having a first burst in a first servo field and a second burst in a second servo field, said first burst providing a first portion of track position information and said second burst providing a second portion of track position information, said first and second portions in combination providing a position of a corresponding track].

2. (Amended) The disk as recited in claim 1, wherein said plurality of bursts [first burst and said second bursts] are located on consecutive sectors [of each track].

3. (Amended) The disk as recited in claim 2, wherein each servo field in each sector includes a second [track further comprises a third] burst that provides a sector sequence number identifying [that identifies] the sequence position of each of said consecutive sectors.

1 4. (Amended) The disk as recited in claim 1, wherein each track includes at least
2 one group of six sectors [further comprises a third burst that provides a third portion of track
3 position information, said first, second and third portions in combination providing a position
4 of a corresponding track].

1 5. (Amended) The disk as recited in claim 4, wherein the six sectors are in
2 consecutive order [said first, said second and said third bursts are located on consecutive
3 sectors of each track].

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1 6. (Amended) The disk as recited in claim 5, wherein each servo field in the six
2 sectors includes a second [track further comprises a fourth] burst that provides a sector
3 sequence number identifying [that identifies] the sequence position of each of said
4 consecutive sectors, said plurality of portions of track position information and the
5 corresponding sequence number in the consecutive six sectors, in combination, providing a
6 position of a corresponding track [; said first, second and third portions and their
7 corresponding sequence numbers in combination providing a position of a corresponding
8 track].

1 7. (Amended) The disk as recited in claim 1, wherein a first burst in a first servo
2 field of a first sector [each track further comprises a third burst that] provides a quadrant
3 position of said disk.

1 8. (Amended) The disk as recited in claim 1, wherein said disk has a second side
2 with a second plurality of tracks, wherein each track on each side of said disk includes at least
3 one group of sectors each having said burst in said servo field corresponding to a portion of
4 track position information [said first burst and said second burst].

1 9. (Amended) The disk as recited in claim 8 [2], wherein a first burst in a first
2 servo field of a first sector and a second burst in a second servo field of a second sector [each
3 track on each side of said disk further comprises a third burst and a fourth burst, said third
4 and fourth bursts] providing a first portion and a second portion of disk side position
5 information, respectively, said first and second portions of disk side position information in
6 combination providing a track position of a side of the disk.

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1 10. (Amended) A hard disk drive, comprising:
2 a housing;
3 a spin motor mounted to said housing;
4 an actuator arm mounted to said spin motor;
5 a disk attached to said spin motor, said disk having at least one side with a plurality of
6 tracks, each track including at least one group of sectors, each sector within said group
7 includes a burst in a servo field which corresponds to a portion of track position information,
8 said plurality of portions of track position information in the corresponding plurality of
9 sectors within said group are combined to provide a track position of a corresponding track
10 [of said tracks having a first burst in a first field and a second burst in a second field, said
11 first burst providing a first portion of track position information and said second burst

12 providing a second portion of track position information, said first and second portions in
13 combination providing a position of a corresponding track]; and
14 a read/write head mounted to said actuator arm for reading said at least one side of
15 said disk.

1 11. (Amended) The hard disk drive as recited in claim 1, wherein said plurality of
2 bursts [first burst and said second bursts] are located on consecutive sectors of each track.

1 12. (Amended) The hard disk drive as recited in claim 11, wherein each servo
2 field in each sector includes a second [track further comprises a third] burst that provides a
3 sector sequence number identifying [that identifies] the sequence position of each of said
4 consecutive sectors.

1 13. (Amended) The hard disk drive as recited in claim 10, wherein each track
2 includes at least one group of six sectors [further comprises a third burst that provides a third
3 portion of track position information, said first, second and third portions in combination
4 providing a position of a corresponding track].

1 14. (Amended) The hard disk drive as recited in claim 13, wherein said six
2 sectors are located consecutively [said first, said second and said third bursts are located on
3 consecutive sectors of each track].

1 15. (Amended) The hard disk drive as recited in claim 14, wherein each servo
2 field in the six sectors includes a second [track further comprises a fourth] burst that provides
3 a sector sequence number identifying [that identifies] the sequence position of each of said
4 consecutive sectors, said plurality of portions of track position information and the
5 corresponding sequence number in the consecutive six sectors, in combination, providing a
6 position of a corresponding track [; said first, second and third portions and their
7 corresponding sequence numbers in combination providing a position of a corresponding
8 track].

1 16. (Amended) The hard disk drive as recited in claim 10, wherein said disk
2 further comprises a second side with a second plurality of tracks, wherein each track on each
3 side of said disk includes at least one group of sectors each having said burst in said servo
4 field corresponding to a portion of track position information [said first burst and said burst,
5 each track on each side of said disk further including a third burst and a fourth burst, said
6 third and fourth bursts providing a first portion and a second portion of disk side position
7 information respectively, said first and second portions of disk side position information in
8 combination providing a position of a side of the disk]; and

9 wherein said hard disk drive further comprises a second read/write head mounted to
10 said actuator arm for reading said second side of said disk.

1 17. (Amended) A method for providing servo information on a disk in a hard
2 disk drive, comprising the steps of:

3 a) providing a disk having [a] at least one side with a plurality of
4 tracks, each track including at least one group of sectors, each sector within said group

5 includes a burst in a servo field which corresponds to a portion of track position
6 information [of said tracks having a first in a first servo field and a second burst in a
7 second servo field, said first burst providing a first portion of track position information
8 and said second burst providing a second portion of track position information];
9 b) reading said plurality of bursts [first burst]; and
10 [c) reading said second burst; and]
11 c) [d)] combining said plurality of portions of track position information [first
12 and said second portions] to provide a track position of a corresponding track.

18. (Amended) The method as recited in claim 17, wherein step a) further comprises
the step of: providing a second [third] burst in each of the plurality of servo fields that provides a
sector sequence number identifying [that identifies] the sequence position of each of said
[consecutive] sectors;
wherein the method further comprises the steps of:
reading said second [third] burst in each sector [, after step c)]; and
[the step of: e)] combining said plurality of portions [first, and second portions] and their
corresponding sequence numbers to provide a position of a corresponding track.

19. (Amended) The method as recited in claim 17, wherein a first burst in a first
servo field of a first sector providing [step a) further comprises the step of providing a third
burst that provides] a quadrant position of said disk.

20. (Amended) The method as recited in claim 17, wherein in step a), said disk
has a second side with a second plurality of tracks, wherein each track on each side of said

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3 disk includes at least one group of sectors each having a burst in servo field, wherein a first
4 burst in a first servo field of a first sector and a second burst in a second servo field of a
5 second sector [said first burst and said second burst; and wherein each track on each side of
6 said disk further comprises a third burst and a fourth burst, said third and fourth bursts]
7 providing a first portion and a second portion of disk side position information respectively;
8 wherein said method further comprises the steps of:
9 d) [e)] reading said first and second portions of disk side position information; and
10 e) [f)] combining said first and second portions to provide a position of a side of the
11 disk.

Please add claims 21-24 as follows:

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1 21. (New) A disk for a hard disk drive, comprising:
2 a disk including at least one side having a plurality of tracks, each track including a
3 plurality of groups of sectors, each group of sectors including a plurality of sectors, each
4 sector in each group of sectors includes a burst in a servo field having a portion of track
5 position information, said portions of track position information in each group of sectors in
6 combination providing a track position of a corresponding track.

1 22. (New) The disk as recited in claim 21, wherein each group of sectors includes
2 six sectors.

1 23. (New) The disk as recited in claim 22, wherein (i) a first sector includes a
2 first burst in a first servo field providing a quadrant position of said disk, (ii) a second sector
3 includes a second burst in second servo field providing a head position of said disk, and (iii) a
4 third sector includes a third burst in a third servo field providing upper bits of track position
5 information.

1 24. (New) The disk as recited in claim 23 wherein each sector further includes a
2 fourth burst in the respective servo fields, said fourth burst providing lower bits of track
3 position information.